REPORT OF THE MINERALOGICAL SECTION.

The Director of the Mineralogical Section of the Academy of Natural Sciences would respectfully report that the Section was organized April 24, 1877, and the following officers elected:—

Director	Theodore D. Rand.
Vice-Director	Wm. H. Dougherty.
Recorder	Henry C. Lewis.
Treasurer	William S. Vaux.
Secretary	Henry C. Lewis.
Conservator	Jos. Willcox.

Meetings have been held every month since that date, except during July and August; the attendance has been good and interest great. The accompanying report of the Conservator shows the work done, which, considering the shortness of the time, must be regarded as highly satisfactory. The appearance of that part of the collection which has been rearranged and relabeled, has been favorably noticed by many members of the Academy.

It is expected that a summary of the scientific work of the Section will be presented to the Academy for publication. The Section numbers nineteen members.

Respectfully submitted,

THEO. D. RAND,
Director.

Report of the Conservator.—Since my election to the office of Conservator, the most important work, under my supervision, has been the rearrangement and classification of the mineral collection of the Academy. On the authority of a resolution of the Section, the arrangement has been made according to the system adopted in the last edition of Prof. Dana's Mineralogy. This operation has been completed, and already some progress has been made in relabeling the specimens upon cards of uniform style; and it is expected that this work will be fully performed during the winter. It is proposed to put the specimens in paper trays of suitable size; and it has been ascertained that under this plan the

minerals will not occupy a greater space than under the existing arrangement, while the attractiveness of the collection will be greatly increased.

The additions to the collection of minerals during the past year have been as great as usual, and satisfactory. Appended is a list of the donations.

Mr. H. C. Lewis has completed the optical examination of the micas in the collection of the Academy, and the divergence of the optic axes thus determined will be appended to the new labels. Much credit is due to Mr. Charles F. Parker for his industry and care in rearranging the mineral collection.

JOSEPH WILLCOX,
Conservator.

Additions to Mineralogical Cabinet.—E. R. Beadle, in exchange. Two specimens of Pyroxene, 1 Scapolite, Slate Nodules, and 2 Hornblendes, 1 Black Tourmaline, 1 Tremolite, 1 Albite (Peristerite), 1 Stilbite, 1 Kieserite, 1 Hæmatite, 1 Magnesite, 2 massive Apatites (Osteolite), 1 Titaniferous Iron, Apatite, Feldspar, etc., from various localites; Fibrous Gypsums, and Elaterite (Elastic Bitumen) from Derbyshire, England.

C. S. Bement. Twenty-five specimens of minerals from various localities, consisting of Corundum, Menaccanite, Perofskite, Gahnite, Franklinite, and Willemite, Rutile, Göethite, Limonite, Chalcophanite, Garnet, Scapolite, Tourmaline, Brewsterite, and Strontianite, Apatite, Apatite in Calcite, Apatite with so-called fused Quartz and Pyroxene, Vanadinite, Pyrrhotite, with Chalybite, and Mesitite, and Cerussite, etc.

Prof. W. P. Blake, on behalf of the National Museum. Specimen of flexible Sandstone (Itacolumite), from Stokes Co., N. C.

E. M. Bye. Slab of polished Serpentine, Harford Co., Md.

Dr. J. T. Coates. Volcanic Rock, from the crater of "Misti," Arequipa Volcano, from 18,600 feet elevation, Peru.

H. C. Coates, Cape of Good Hope Commission. A number of specimens of ores of copper, Galena, Manganese, Coal, etc., Cape of Good Hope.

Lieut. E. Crawford. A small collection of rock specimens from the Black Hills, Wyoming Territory.

Prof. Domeyko, on behalf of the Chilian Centennial Commission, in exchange. Mineral specimens consisting of Chrysocolla Erythrite, Atacamite, Malachite, Coquimbite, Proustite, Chal-

cophillite, Cerargyrite, Arquerite, Fibroferrite, Argentiferous Tetrahedrite; Oxide, Sulphides, and Silicate of Copper. A large number of specimens of minerals, ores, and rocks, including fine examples of Quartz Crystals, Copper, and Silver ores, Cobalt, Sulphur, Galena, Tremolite, Hornblende, Cinnabar, Azurite, Hayesine, Prowstite in Limestone, Aragonite, Salt, Native Arsenic, Philippite, Kronkite, Nitrate of Soda, Effloresence from the Laguna of Maricunga, and fifty rock specimens. All from Chili, Peru, and Bolivia.

W. H. Dougherty. Native copper in the Hecla and Calumet Conglomerate, Houghton Co., Mich.; Chalcopyrite, Christiania, Norway.

W. D. Eyre. Asbestos with fibres $3\frac{3}{4}$ ft. long, Val Tellina, Piedmont.

John Ford. Two specimens of Peacock Anthracite, Schuylkill Co., Pa.

E. Goldsmith. Specimens of Triassic Coal, Montgomery Co., Pa.

H. A. Green. Aragonite and Calcite in Geode, Warsaw, Illinois.

Julian Gutierrez, through M. Bárcena. Slab of Travertine Limestone (Mexican Onyx), from the Tecali Quarries, Puebla, Mexico.

J. Hazard. Specimen of Drusy Quartz, from Mine La Motte, Mo.

J. Heistand. Two Stalactites, Middletown, Dauphin Co., Pa.

Russell Hill. Dolomite Actinolite, Magnetic Iron and Pyrites, Garnets in Mica Schist, from the Soapstone Quarry, Manayunk, Phila.

Jos. Jeanes. Two specimens of Amethyst, two of Quartz on Chalcedomy, three of Chalcedomy, one of Tufa, and specimens of Sulphur, all from the National Park, Montana.

W. W. Jeffries, in exchange. Kyanite, Margarite on Corundum, Aquacreptite, Amazon Stone, Lennilite, Hallite, Chesterlite, and Chromite in Serpentine, from Chester and Delaware Counties, Pa.; Asbestos, Phlogopite, Sandstone, Feldspar, from various localities of Arberton; Tourmaline, Kammererite, Fibrolite, Magnesite, Actinolite, Kyanite, and Quartz.

Dr. Linn. Specimen of Apatite, Schischimsk, Siberia.

H. C. Lewis. Ripple marks in Medina Sandstone (No. 4), Blackleg Gap, Huntingdon Co., Pa., and Siderite, Dunbar, Fayette Co., Pa.; Biotite, Darby Creek, Darby, Phila.; Lepidomelane, Frankford, Phila.

Dr. Jos. Leidy. Spinel in Chlorite, from Franklin, Macon Co., N. C. Light Brown Tourmaline, St. Lawrence Co., N. Y. Green Tourmaline in granite, Paris, Me. Two terminated Crystals of Topaz, from Minas-Gereas, Brazil. Two Crystals of Green Tourmaline; two terminated Crystals of the same; one terminated Crystal of Black Tourmaline; one Crystal of Tourmaline (Indicolite); one Crystal of Rubellite; one section of Crystal of Rubellite and Green Tourmaline, all from Villa Rica, Brazil. Red and Green Tourmaline, with Cookeite, in quartz, from Mt. Mica, Paris, Maine. Kyanite, from Delaware Co., Pa. Crystalline Slag, from Swedes' Furnace, Upper Merion, Montgomery Co., Pa. Laumontite, from east side of the Schuylkill, Philadelphia Park. Crystalline Slag from copper furnace, Baltimore, Md. Rock Milk, from Hot Springs, Gardner's River, National Park. Mica, Pennsbury, Chester Co., Albite, with Muscovite, near Media, Delaware Co., Muscovite, with Biotite, Laurel Hill, Phila. Sulphuret of Cadmium on Blende, from Friedensville, Lehigh Co., Pa. Jadeite and Talcose schist, from Easton, Pa. Calcite, from Martinsburg, Lewis Co., N. Y. Pyroxene and Feldspar, from Rossie, N. Y. Scapolite and Peristerite, from Pierrepont, N. Y.

From the same, in exchange. Hydrodolomite on Chromite, from Texas, Lancaster Co., Pa. Opal, from near the south fork of the American River, California.

H. W. Mitchell. Twenty-two Minerals and Rocks from Auckland, New Zealand.

W. A. Mintzer, U. S. N. Four large, black Tourmalines, 15 inches long. Four additional terminated Crystals, from 1 to 7 inches long, Harbor of Niantilik, Cumberland Gulf, north lat. 64° 56′, W. long. 66° 21′.

Galloway C. Morris. One specimen of Coorongite; three of Mineral Caoutchouc, from Southern Australia.

Mr. Julius Partz. Marecanite, near Benton, Mono Co., Cal. Acicular Obsidian. Three specimens of Partzite, one Blende, and one other mineral.

Chas. C. Phillips. Two specimens of Copalite, from Zanzibar, Africa; two of Asphaltum, Cuba.

Theo. D. Rand. Five Molybdenites, and a specimen of Stilbite from Frankford, Phila. Aragonite in Chlorite, and Millerite

in Dolomite, Soapstone Quarry, Phila. Muscovite and Orthoclase, west of Fairmount Dam, Phila. A very fine collection of Rocks from the vicinity of Philadelphia, numbering 131 specimens. Molybdic Ochre, Upland, Delaware Co., Pa.; Metaxite, Lancaster Co., Pa. One specimen of Meerschaum; two Chalcedony; one Blue Apatite; one Quartz, Pseudomorph after Calcite; one Oct. Cryst. of Zinc Blende in Cryolite; one Carbonate of Iron in Cryolite, from Greenland. Also 114 specimens of minerals from the neighborhood of Philadelphia.

S. R. Roberts. Four samples of Coal Oil from Franklin, Pa.

W. E. Rowell. A small collection of minerals and rocks from Arkansas.

Samuel L. Smedley. Two specimens of Clay dredged from middle of Schuylkill at Penrose Ferry bridge at a depth of 30 to 36 feet below low water mark.

Adolph Lutro, through W. H. Dougherty. One hundred and seventy-seven specimens of the rocks traversed by the "Sutro tunnel" towards the Comstock silver lode at Virginia City, Nevada.

J. F. Tottenham, through A. D. Jessup. Twenty-two specimens of Beckite, from Devonshire, England.

José Carlos Tracy, of the Peruvian Commission. Two hundred and seventy-seven minerals, handsomely arranged in sixteen cases, from Peru.

Jos. H. Tull. Specimens of Sulphuret of Silver (Argentite). Ruby Silver (Proustite), from the New York Cañon, Lander Co., Nevada. Coke from accidental combinations of Lignite, Cottonwood Cañon, Humboldt Valley, Nevada.

W. S. Vaux. Two large Crystals of Scapolite, from St. Lawrence Co., N. Y.

Victoria Centennial Commission, through Sir Redmond Barry. A large mass of Garnierite from New Caledonia, Australia; also specimens of Lignite, Chalcopyrite, Bituminous Coal, and forty-six rock specimens from Victoria, Australia.

Dr. Jas. White. Garnets, Ceylon.

Jos. Wilcox. Tremolite, Quartz, Garnet, Feldspar, Crystals of Serpentine and Zircon from different localities. Tremolite from St. Lawrence Co., New York, and Blue Carbonate of Lime from Calumet Island, Canada. Large Sphene, N. Y.

Fine Crystals of Feldspar from Pike's Peak, Colorado. Thirteen minerals, including Feldspar, Muscovite, Actinolite, Staurotide, Corundum, Corundum with Ripidolite; Corundum, Margarite, and Tourmaline from various localities. Chlorite Pseudomorph after Magnetite from Spurr Mine, Michigan. Tourmaline, Alexander Co., N. C.

The following Tasmanian minerals were presented through H. P. Welch, Centennial Commissioner for Tasmania, on behalf of their respective donors :—

British and Tasmanian Charcoal Iron Co. Iron Ores, Pig Iron, etc.

Dr. J. Coverdale. Red Ochre, earth for paints, pipe clay, from Port Arthur.

F. Groom. Coal from Fingal. Harefield.

W. Hammond. Bismuth from Mount Ramsey, Hobart Town.

Jas. Harcourt. Iron Ore, Pig Iron, and Coal from Seymour.

Hæmatite Iron Works. Iron Ores, Blue and White Limestone, West Tamar.

H. J. Hull. Tin Ore, George's Bay, Hobart Town.

J. Hurst. Coal from Tasman's Peninsula.

J. H. Innis. Tin Ore from Ringarooma and George's Bay, Hobart Town.

T. C. Just. Magnetic Iron Ore, etc., Launceton.

W. A. Kermode. Salt, from Salt Pan Plains. Two blocks of Freestone, Mona Vale.

Jas. Laughton. Umber and Sienna Clay from Hobart Town.

Lyell & Gowen. Slate, Tin Ore, Marble, Limestone, and Coal, Melbourne.

E. Raynor. Limestone, with Fossils, Bridgewater.

Dr. Smart. Gold in quartz, Hobart Mine, Fingal, Hobart Town, Stanhope County. Tin Ore.

R. Strachan. Salt, from Salt Works, Cambridge.

The following purchases were made: Jasper, Vergennes, Vt.; Datolite; Analcite, Phœnix, Mich.; Amethyst, L. Superior; Millerite in Dolomite, St. Louis, Mo. Amazon Stone (Orthoclase), from near Pike's Peak, Colorado. Curved Crystals of Calcite, Amethysts, and Agate, from the Yellowstone Park, N. W. Wyoming.

The election of Officers for 1878 was held in accordance with the By-laws, with the following result:—

President . . .	W. S. W. Ruschenberger, M.D.
Vice-Presidents . .	Wm. S. Vaux, Thomas Meehan.
Recording Secretary .	Edward J. Nolan, M.D.
Corresponding Secretary	George H. Horn, M.D.
Treasurer . . .	Wm. C. Henszey.
Librarian . . .	Edward J. Nolan, M.D.
Curators . . .	Joseph Leidy, M.D., Wm. S. Vaux, Chas. F. Parker, R. S. Kenderdine, M. D.
Councillors to serve three years	Geo. A. Koenig, Ph. D., J. H. McQuillen, M.D., Chas. P. Perot, Geo. Y. Shoemaker.
Finance Committee .	Aubrey H. Smith, Robert Bridges, M.D. Edward S. Whelen.

ELECTIONS DURING 1877

MEMBERS.

January 30.—C. W. Cross, J. T. Montgomery, Jos. M. Stoddart, H. Ernest Goodman, M.D., Thos. Biddle, Jr., M.D., Wm. G. Audenried, Jos. Thomas, M.D., I. S. Moyer, M.D., and Clarence C. De Lannoy.

February 27.—Frank L. Scribner and Mrs. Mary Wagner.

March 27.—Charles Ashburner and Thomas Mackellar

April 24.—Jos. G. Rosengarten, Edgar F. Smith, Ph.D., J. Marshall Stoddart, Jr., and Gertrude K. Peirce.

May 29.—Andrew C. Craig, William John Potts, John E. Cook, Charles Zentmayer, Samuel L. Fox, Shippen Wallace, and Joseph D. Schoales, M.D.